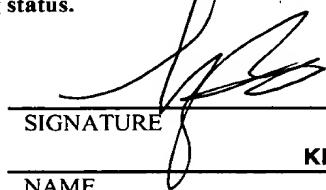


FORM PTO-1350 (Modified) (REV 10-95)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER <b>BB-1264</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR) <b>09/857524</b>		
INTERNATIONAL APPLICATION NO. <b>PCT/US99/28589</b>	INTERNATIONAL FILING DATE <b>2 DECEMBER 1999 (02.12.99)</b>	PRIORITY DATE CLAIMED <b>3 DECEMBER 1998 (03.12.98)</b>		
TITLE OF INVENTION <b>MEMBRANE-BOUND DESATURASES</b>				
APPLICANT(S) FOR DO/EO/US <b>CAHOON, Edgar B., et al.</b>				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information				
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to being national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b)) and PCT Articles 22 and 39(1).</li> <li>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19<sup>th</sup> month from the earliest claimed priority date.</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application was filed (35 U.S.C. 371 (c) (2))           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li> </ol> </li> <li>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371 (c) (2)).</li> <li>7. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> <li>8. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c) (3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>9. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>10. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409)</li> <li>12. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> </ol>				
Items 13 to 18 below concern document(s) or information included :				
<ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment. A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A substitute specification.</li> <li>17. <input checked="" type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>18. <input checked="" type="checkbox"/> Certificate of Mailing by Express Mail.</li> <li>19. <input type="checkbox"/> Other items or information:</li> </ol>				
<b>17. General Power of Attorney</b> <b>18. Express Mailing Label No.: EL031052609US</b>				

APPLICATION NO (IF KNOWN, SEE 37 CFR 1.492 (a) (1)) <b>09/8575</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US99/28589</b>	ATTORNEY'S DOCKET NUMBER <b>BB-1264</b>																				
20. The following fees are submitted		CALCULATIONS PTO USE ONLY																					
<b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :</b>																							
<input checked="" type="checkbox"/> Search Report has been prepared by the EPO or JPO _____ \$860.00 <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) ..... \$690.00 <input type="checkbox"/> No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) ..... \$760.00 <input type="checkbox"/> Neither international preliminary examination fee paid to USPTO (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$1000.00 <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) And all claims satisfied provisions of PCT Article 33(2)-(4) ..... \$ 100.00																							
<b>ENTER APPROPRIATE BASIC FEE AMOUNT</b>		=	<b>\$860.00</b>																				
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)).		<input type="checkbox"/> 20 <input type="checkbox"/> 30	<b>\$0.00</b>																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>17 - 20 =</td> <td>0 x</td> <td>\$18.00</td> </tr> <tr> <td>Independent Claims</td> <td>2 - 3 =</td> <td>0 x</td> <td>\$80.00</td> </tr> <tr> <td colspan="2">Multiple Dependent Claims (check if applicable)</td> <td><input type="checkbox"/></td> <td>\$ 0</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>TOTAL OF ABOVE CALCULATIONS</b></td> <td>=</td> <td style="text-align: center;"><b>\$ 0</b></td> </tr> </tbody> </table>				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total Claims	17 - 20 =	0 x	\$18.00	Independent Claims	2 - 3 =	0 x	\$80.00	Multiple Dependent Claims (check if applicable)		<input type="checkbox"/>	\$ 0	<b>TOTAL OF ABOVE CALCULATIONS</b>		=	<b>\$ 0</b>
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																				
Total Claims	17 - 20 =	0 x	\$18.00																				
Independent Claims	2 - 3 =	0 x	\$80.00																				
Multiple Dependent Claims (check if applicable)		<input type="checkbox"/>	\$ 0																				
<b>TOTAL OF ABOVE CALCULATIONS</b>		=	<b>\$ 0</b>																				
Reduction of $\frac{1}{2}$ for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable).		<input type="checkbox"/>	<b>\$0.00</b>																				
<b>SUBTOTAL</b>		=	<b>\$ 0</b>																				
Processing Fee of <b>\$130.00</b> for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)).		<input type="checkbox"/> 20 <input type="checkbox"/> 30	<b>\$0.00</b>																				
<b>TOTAL NATIONAL FEE</b>		=	<b>\$ 860</b>																				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).		<input type="checkbox"/>	<b>\$0.00</b>																				
<b>TOTAL FEES ENCLOSED</b>		=	<b>\$ 860</b>																				
		Amount to be : refunded	\$																				
		Charged	\$																				
<input type="checkbox"/> A check in the amount of _____ to cover the above fees enclosed. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <b>04-1928</b> in the amount of <b>\$ 860.00</b> to cover the above fees. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. <b>04-1928</b> a duplicate copy of this sheet is enclosed.																							
<b>NOTE : Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (CFR 1.37(a) or (b)) must be filed and granted to restore the application to pending status.</b>																							
<b>SEND ALL CORRESPONDENCE TO:</b> <div style="border: 1px solid black; padding: 10px; margin-bottom: 10px;">           LI, KENING            E. I. DU PONT DE NEMOURS AND COMPANY            Legal Patent Records Center            1007 Market Street            Wilmington, Delaware 19898            United States of America         </div> <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <b>SIGNATURE</b>   </div> <div style="flex: 1;"> <b>KENING LI</b> </div> </div> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><b>NAME</b></td> <td style="width: 50%;"><b>44,872</b></td> </tr> <tr> <td colspan="2"><b>REGISTRATION NUMBER</b></td> </tr> <tr> <td colspan="2"><b>06/04/2001</b></td> </tr> <tr> <td colspan="2"><b>DATE</b></td> </tr> </table>				<b>NAME</b>	<b>44,872</b>	<b>REGISTRATION NUMBER</b>		<b>06/04/2001</b>		<b>DATE</b>													
<b>NAME</b>	<b>44,872</b>																						
<b>REGISTRATION NUMBER</b>																							
<b>06/04/2001</b>																							
<b>DATE</b>																							

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

 Applicant Claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 110)

## Complete If Known

Application Number	09/857,524
Filing Date	JUNE 4, 2001
First Named Inventor	REBECCA E. CAHOON ET AL.
Examiner Name	UNKNOWN
Group / Art Unit	UNKNOWN
Attorney Docket No.	BB1264 US PCT

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None Deposit Account:

Deposit Account Number

04-1928

Deposit Account Name

E. I. du Pont de Nemours and Company

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity | Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)				(\$ 0)	

## 2. EXTRA CLAIM FEES

Total Claims	-20	=	0	X	18	=	0	Extra Claims	Fee from below	Fee Paid
Independent Claims		-3	=	0	X	84	=	0		
Multiple Dependent	<input type="checkbox"/>			X	280	=	0			

Large Entity | Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)				(\$ 0)	

\*\* or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity | Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 110)

## SUBMITTED BY

Name (Print/Type)	LYNNE M. CHRISTENBURY	Registration No. Attorney/Agent	30,971	Telephone	302-992-5481
Signature	<i>Lynne M. Christenbury</i>			Date	9/16/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

## Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents, Box PCT  
Washington, D.C. 20231

on September 16, 2002  
Date

Susan L. Durkee  
Signature

SUSAN L. DURKEE

Type or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

09/857,524  
BB1264 US PCT  
PRELIMINARY AMENDMENT AND RESPONSE TO NOTIFICATION OF DEFECTIVE  
RESPONSE  
STATEMENT UNDER 37 1.821(g) AND 1.825(b)  
SEQUENCE DISKETTE - CRF  
SEQUENCE LISTING - 19 PAGES  
COPY OF NOTIFICATION OF DEFECTIVE RESPONSE  
PETITION FOR EXTENSION OF TIME  
POSTCARD

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b>		Docket Number (Optional) BB1264 US PCT
	In re Application of REBECCA E. CAHOON ET AL.	
	Application Number 09/857,524	Filed JUNE 4, 2001
	For MEMBRANE-BOUND DESATURASES	
	Group Art Unit UNKNOWN	Examiner UNKNOWN

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and appropriate non-small-entity fee are as follows  
(check time period desired):

<input checked="" type="checkbox"/> One month (37 CFR 1.17(a)(1))	<u>\$110.00</u>
<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee amount shown above is reduced by one-half, and the resulting fee is: \$ _____.	
<input type="checkbox"/> A check in the amount of the fee is enclosed.	
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.	
<input type="checkbox"/> The Commissioner has already been authorized to charge fees in this application to a Deposit Account.	
<input type="checkbox"/> The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____.	

I have enclosed a duplicate copy of this sheet.

I am the  applicant/inventor.

<input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
<input checked="" type="checkbox"/> attorney or agent of record.
<input type="checkbox"/> attorney or agent under 37 CFR 1.34(a).
Registration number if acting under 37 CFR 1.34(a). _____.

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Sept. 16, 2002

Date

Lynne M. Christenbury

Signature

LYNNE M. CHRISTENBURY

Typed or printed name

09/24/2002 LANDGRA 00000056 041928 09857524

01 FC:115 110.00 CH

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.